SPS-5

SOLAR POWER SUPPLY INSTRUCTION SHEET

CHARGE CNTLR
Solar IN Battery
+ - + -
NC

- BLK
PRT-16CCS
+ RED

+ RED
- BLK

From Meter's KYZ output

10A Fuse

+ (Pos)
- (Neg)

12VDC 34Ah BATTERY
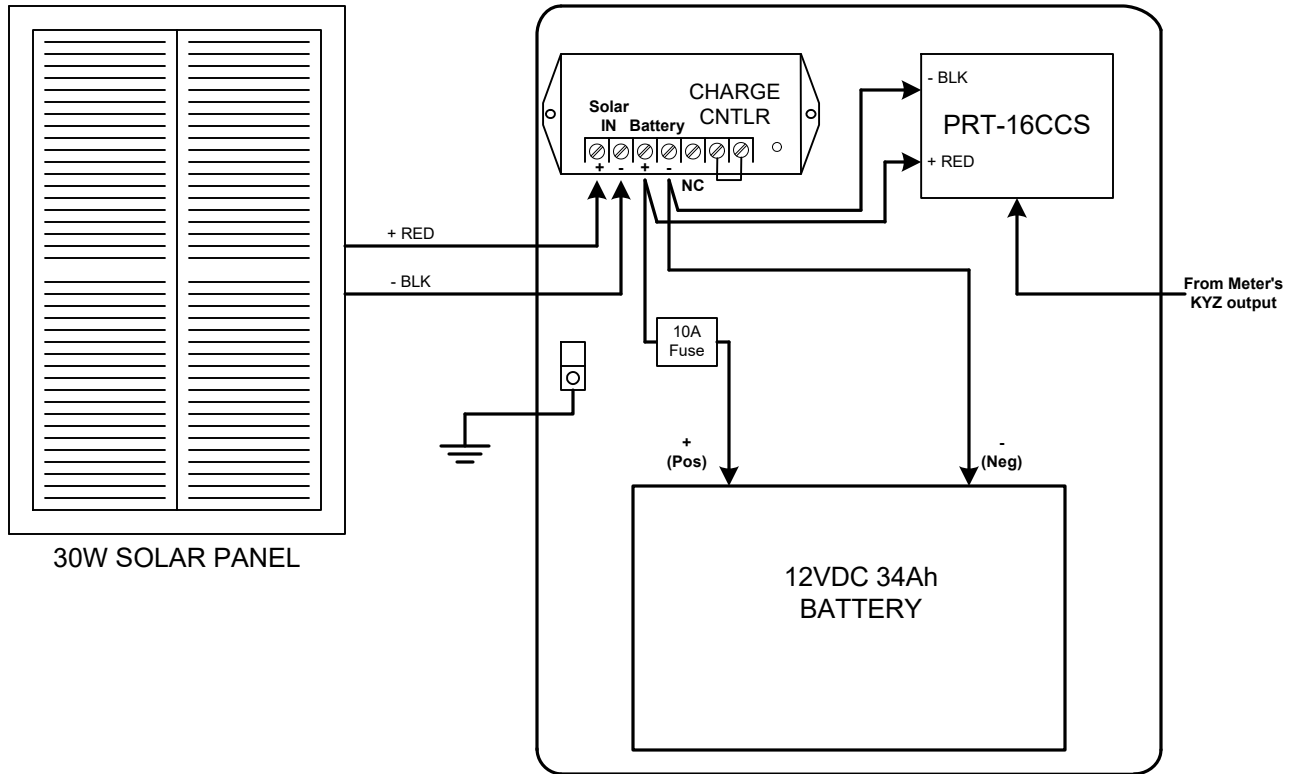
30W SOLAR PANEL

MOUNTING POSITION - The SPS-5 Enclosure must be mounted in an upright position so that the battery is placed on the bottom of the enclosure. Mount the solar panel using the metal mounting bracket provided to get the correct mounting angle pursuant to the instructions included in the mounting bracket kit. The solar panel mounting bracket is designed to attach to a pole or building.

POWER INPUT - Connect the Solar Panel's positive lead to the "+" input of the charge controller. Connect the solar panel's negative lead to the "-" input terminal of the charge controller.

BATTERY AND LOAD CONNECTIONS - Connect the load in parallel with the battery's terminals on the charge controller, with the positive lead to the "+" output of the charge controller. Connect the load's negative lead to the "-" output terminal of the charge controller. Do not use the load terminals of the charge controller as they are subject to the low voltage cutout(LVC) feature of the charge controller.

METER CONNECTIONS - Connect the meter's K and Y pulse output terminals to the A7810's input terminals.

POWER UP - Connect the marked RED lead with the RING terminal to the Battery's Positive (+) terminal.

FUSE - There is a 10 Amp in-line fuse between the battery's positive (+) terminal and the charge controller.   This fuse size may be reduced to a lower amperage if desired.

NORMAL OPERATION - Under normal circumstances the solar panel will output between 10 and 17 voltage to the charge Controller. The length of time that the battery will hold up the Modhopper or similar connected load is directly related to the discharge rate. The lower the discharge rate the longer the battery's charge will last. The hold-up time without any recharge from the solar panel for a 200mA load is approximately 5 to 7 days. Limit the load current to the lowest possible level for the best results.

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